

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1026383

Luminaire Tested: S124RDIP-B575D1035UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026383
REPORT IS A COMBINATION OF REPORTS P999423 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B575D1035UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

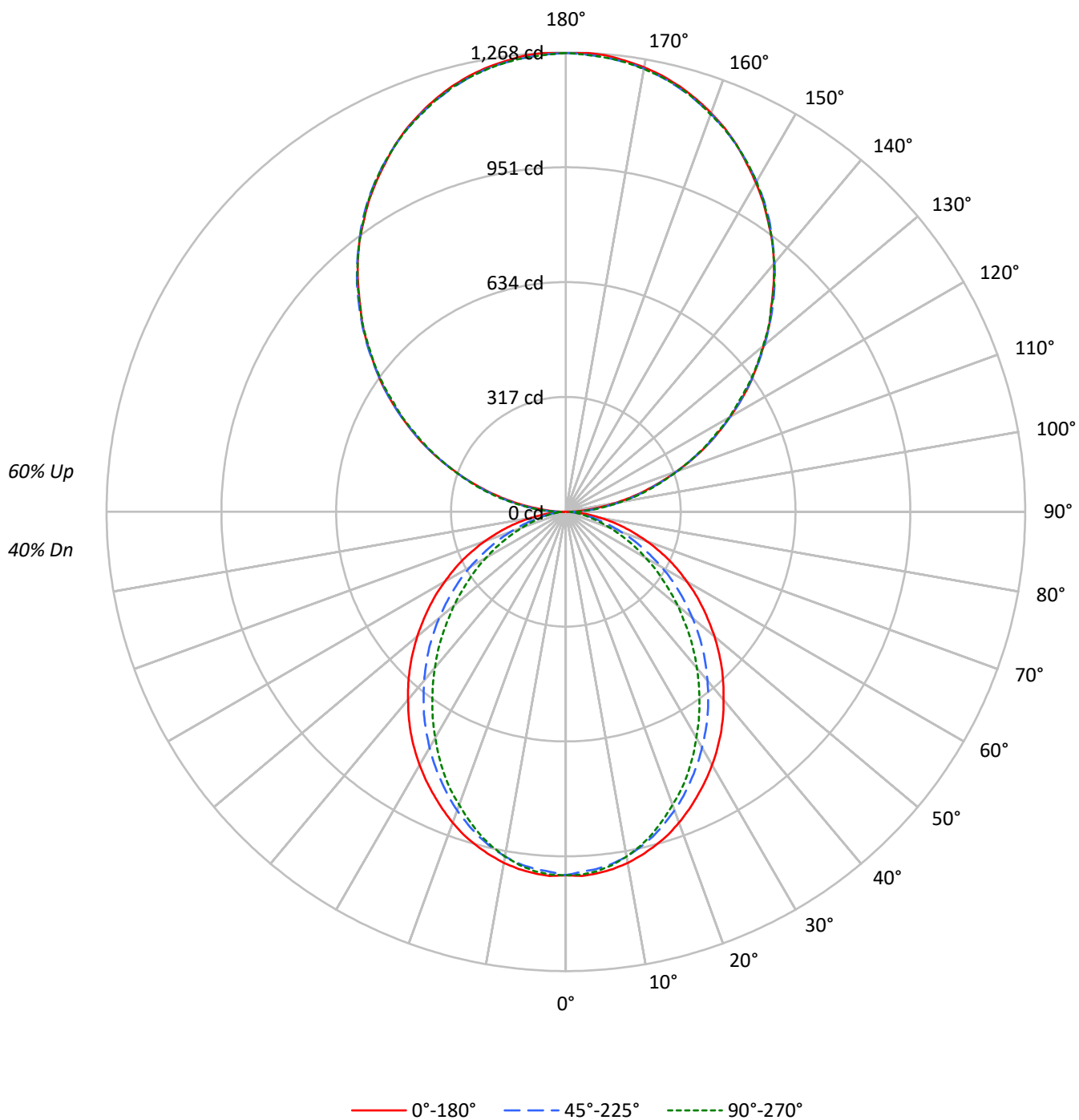
Lumens per Lamp: N/A
Luminaire Lumens: 5835.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
Input Voltage (V):
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47
1	96	92	88	84	87	83	80	77	68	66	64	54	53	52	42	41	40
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34
3	80	71	64	58	72	65	58	54	53	49	45	43	40	37	33	31	29
4	73	63	55	49	66	57	51	45	47	42	39	38	35	32	29	27	25
5	67	56	48	42	61	51	44	39	42	37	33	34	30	28	27	24	22
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	22	19
7	57	45	37	32	52	41	35	30	35	29	26	28	24	21	22	19	17
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	20	18	16
9	49	37	30	25	45	34	28	24	29	24	20	24	20	17	19	16	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8181	8181	8181
5°	8182	7938	7938
10°	8112	7687	7595
15°	8000	7375	7191
20°	7854	7020	6730
25°	7672	6636	6280
30°	7493	6245	5774
35°	7298	5848	5280
40°	7064	5421	4772
45°	6845	4998	4269
50°	6596	4535	3759
55°	6327	4060	3232
60°	6028	3557	2711
65°	5739	2979	2210
70°	5330	2371	1689
75°	4804	1726	1181
80°	4014	1059	850
85°	3020	610	467

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6845 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.6
10°-20°	263.0	4.5
20°-30°	379.7	6.5
30°-40°	430.4	7.4
40°-50°	415.5	7.1
50°-60°	345.5	5.9
60°-70°	238.4	4.1
70°-80°	120.5	2.1
80°-90°	33.3	0.6
90°-100°	82.6	1.4
100°-110°	247.3	4.2
110°-120°	420.1	7.2
120°-130°	554.0	9.5
130°-140°	622.3	10.7
140°-150°	611.6	10.5
150°-160°	514.4	8.8
160°-170°	342.3	5.9
170°-180°	119.8	2.1
0°-30°	737.1	12.6
0°-40°	1167.5	20.0
0°-60°	1928.5	33.1
0°-90°	2320.7	39.8
90°-120°	749.9	12.9
90°-150°	2537.8	43.5
90°-180°	3514.0	60.2
0°-180°	5835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1002	999	989	997	996	95
15°	954	947	928	926	921	269
25°	863	849	817	804	797	397
35°	746	721	683	657	643	466
45°	608	580	534	496	482	469
55°	461	430	380	340	326	412
65°	313	280	231	198	189	309
75°	167	138	102	84	80	176
85°	42	26	24	22	22	46
90°	3	14	22	27	29	7
95°	59	68	74	77	77	64
105°	228	229	233	236	239	242
115°	427	427	425	424	423	421
125°	622	622	621	619	617	554
135°	802	808	808	806	803	621
145°	975	979	980	979	976	610
155°	1117	1117	1116	1120	1116	514
165°	1216	1213	1211	1217	1213	343
175°	1265	1260	1259	1266	1259	120
180°	1267	1267	1267	1267	1267	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.2	1003.2	1003.2	1003.2	1003.2
2.5°	1006.3	1003.2	994.8	1003.2	1002.4
5°	1001.7	998.6	989.4	997.1	995.5
7.5°	994.8	991.7	980.2	985.5	983.2
10°	984.0	980.2	966.3	969.4	966.3
12.5°	970.2	965.6	948.7	950.2	945.6
15°	954.0	947.1	927.9	926.4	921.0
17.5°	935.6	925.6	903.3	899.5	891.8
20°	913.3	903.3	877.2	871.1	861.1
22.5°	888.7	877.2	848.8	838.8	831.1
25°	862.6	848.8	817.3	804.2	796.6
27.5°	835.7	818.8	785.8	770.5	759.7
30°	807.3	788.1	752.0	732.8	720.5
32.5°	777.4	755.1	717.4	694.4	682.9
35°	745.9	721.3	682.9	656.8	642.9
37.5°	712.8	687.5	645.2	616.8	603.0
40°	677.5	652.2	608.4	576.1	562.3
42.5°	643.7	616.8	570.7	537.7	523.1
45°	608.4	580.0	533.9	496.2	482.4
47.5°	572.3	543.1	495.5	456.3	440.9
50°	535.4	505.4	456.3	417.9	403.3
52.5°	497.8	468.6	417.9	378.7	363.3
55°	460.9	430.2	380.2	340.3	325.7
57.5°	424.8	392.5	343.4	302.6	291.9
60°	385.6	354.9	305.7	265.8	253.5
62.5°	350.3	318.0	267.3	231.2	222.0
65°	313.4	280.4	231.2	198.2	189.0
67.5°	275.0	243.5	197.4	168.2	157.5
70°	238.9	206.6	162.8	137.5	129.8
72.5°	200.5	172.1	131.4	110.6	103.7
75°	166.7	138.3	102.2	84.5	79.9
77.5°	131.4	106.8	76.0	63.8	62.2
80°	97.6	75.3	52.2	49.9	49.2
82.5°	68.4	48.4	37.6	36.1	35.3
85°	41.5	26.1	23.8	22.3	22.3
87.5°	17.7	11.5	10.8	10.0	10.8
90°	2.9	13.7	21.6	27.4	29.4
92.5°	25.5	38.2	43.1	46.0	47.0
95°	58.8	67.6	74.4	77.4	77.4
97.5°	94.0	101.9	109.7	113.6	113.6
100°	137.1	141.1	149.9	151.8	151.8
102.5°	182.2	183.2	191.0	194.0	194.9
105°	228.2	229.2	233.1	236.1	239.0
107.5°	276.2	277.2	278.2	282.1	281.1
110°	325.2	327.2	326.2	324.2	327.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.2	376.2	374.2	374.2	374.2
115°	427.1	427.1	425.1	424.2	423.2
117.5°	475.1	475.1	474.1	471.2	468.2
120°	523.1	527.0	524.1	519.2	521.1
122.5°	573.0	574.0	573.0	570.1	565.2
125°	622.0	622.0	621.0	619.1	617.1
127.5°	666.1	669.0	667.1	665.1	664.1
130°	713.1	716.1	716.1	714.1	710.2
132.5°	761.1	763.1	762.1	760.1	759.2
135°	802.3	808.1	808.1	806.2	803.2
137.5°	848.3	851.2	853.2	850.3	851.2
140°	894.3	896.3	896.3	895.3	894.3
142.5°	936.5	938.4	937.4	937.4	937.4
145°	974.7	978.6	979.6	978.6	975.6
147.5°	1013.9	1018.7	1017.8	1016.8	1015.8
150°	1049.1	1053.0	1053.0	1053.0	1052.1
152.5°	1082.4	1084.4	1085.4	1088.3	1085.4
155°	1116.7	1116.7	1115.7	1119.6	1115.7
157.5°	1146.1	1144.1	1144.1	1147.1	1144.1
160°	1171.6	1170.6	1169.6	1172.5	1167.6
162.5°	1195.1	1192.1	1191.2	1197.0	1192.1
165°	1215.6	1212.7	1210.7	1216.6	1212.7
167.5°	1232.3	1228.4	1228.4	1234.3	1228.4
170°	1246.0	1241.1	1242.1	1248.0	1241.1
172.5°	1255.8	1251.9	1251.9	1258.7	1251.9
175°	1264.6	1259.7	1258.7	1265.6	1258.7
177.5°	1268.5	1263.6	1263.6	1270.5	1262.7
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)